

State Department of Geology and Mineral Industries <sup>RSN</sup>

702 Woodlark Building  
Portland, Oregon

Douglas County  
Riddle Area  
November 25, 1945

NAME:

Levens Ledge (Gold)

OWNERS:

W. F. Kernin, Box 855, Roseburg, Oregon

E. M. Renfro, Roseburg, Oregon

LOCATION:

The mine is located in the NE 1/4, Sec. 5, T. 31 S., R. 5 W. The mine is 3 1/2 miles southwest of Canyonville on the west slope of Telluruim Peak at an elevation of 1500 feet. The mine is about 3/4 mile south of the Canyonville Riddle road on Jordan Creek. The road from the Riddle road is graveled but steep.

AREA:

The Levens Ledge property consists of 169 acres of patented land.

DEVELOPMENT:

The mine has been developed by seven tunnels; three of which are on the ledge. The No. 3 tunnel is the only one on the ledge that is open. The No. 4 or Adit tunnel on the Mill level is open but is

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STATE DEPT OF GEOLOGY  
& MINERAL INDS.

Nov. 29, 1945  
mine map  
Youngberg

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not on the vein. No. 5 tunnel is a X-cut 1300 feet long driven to intersect the vein at depth but was not completed. It also is caved. The ore mined came from above the No. 3 level. A sketch map of old stopes indicate the major portion of the ore was mined above the No. 2 level. The No. 1 level is 90 feet long, the No. 2, 220 feet long and the No. 3 about 500 feet, in length. No records of mine production are available but it is believed to be in the order of 75-80 thousand dollars. The attached map shows the No. 3 level and the Adit Level or No. 4 level which were open at the time this examination was made.

GEOLOGY:

The Levens Ledge is in greenstones of Jurassic age close to or in contact with a small elliptical body of serpentine. The greenstones are locally an altered greenish volcanic tuff. On the trail to the Gold Bluff Mine a small dike of diorite was observed intruding the serpentine about 200 feet south of the No. 3 tunnel portal. The greenstones have closely spaced joints striking N. 70 E. and dipping 50-60° S. In places they become closely enough spaced to have an appearance of a shear zone. The vein

LEVENS LEDGE PAGE 3

observed in the No. 3 tunnel is composed of overlapping lenses of quartz which appears to have replaced the greenstones along a shear zone 2' - 8' wide. The vein has a strike of N. 70-80° E. and a dip of 60-70° E. coinciding with the jointing in the greenstone. The vein matter is largely quartz with scattered blebs of chalcopyrite and pyrite. Small inclusions of unreplaced greenstone <sup>was</sup> also frequently seen. The gold is reported to occur largely free, however, undoubtedly some gold is associated with the sulphides. There appeared to be an increase in chalcopyrite close to areas stoped, some copper staining was noted in the remnants of the first stoppe on the No. 3 level. The vein where observed was stoped for a width of 1 1/2 to 3 feet. The average gold content of ore mined is unknown. The ore shoot mined appears to be above 200 feet long and dips down the slope of the vein.

The vein is cut by numerous vertical post mineral faults which off sets the vein to the north. Where the vein comes in contact with the serpentine on the east end of the No. 3 level, it weakens and is broken up by numerous faults.

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## EQUIPMENT - MINING - METALLURGY:

The mine is at present only equipped with hand mining tools. The No. 3 level is equipped with 16 pound rail and a 16 cubic foot mine car.

Previous mining has been carried on in open stopes using stull and head boards.

The old mill on the property used a stamp mill followed by amalgamation plates and table.

## GENERAL INFORMATION:

The vein outcrops on the east side of Jordan Creek on the steep south slope of Tellurium Mt. The slopes in the vicinity of the mine are about 30°.

The climate is typical of Southern Oregon, having long dry summers with about 30" of rain during the winter months. Snow fall at the elevation of the mine is light and would have very little affect upon mining operations.

The mine can be reached the year around by automobile. The nearest railroad is the Southern Pacific at Riddle, a distance of about five miles.

by Young 1919 ?

# State Department of Geology and Mineral Industries

LEVINS LEDGE

DOUGLAS CO  
Riddle Area.

702 Woodlark Building  
Portland, Oregon

## ECONOMICS:

The No. 3 level exposes a persistent shoot of quartz for a distance of about 200 feet having a width of 1 1/2 to 6 feet. This shoot coincides according to the old sketch map to the ore shoot mined above the No. 2 level. This quartz shoot is marked as ore on the sketch map. This area should be channeled sampled every 5 feet to determine if the quartz contains commercial gold values. This would require 40-50 samples. This shoot undoubtedly continues below the No. 3 level as indicated by the three shafts. If possible these should be pumped out and sampled.

The adit on the Mill level is about 85 feet south of the vein and some 200 feet southwest of the ore shoot on that level and 43 feet below the No. 3 tunnel.

The outcrop under the mill coincides very closely with the projection of the main vein to the west. It appears some consideration should be given to driving a short crosscut to the mill vein from a point east of the mill building and drifting to the east upon it rather than to continue the Adit or No. 4 level. The distance would be about 80 feet greater but about 200 feet would be on an unexplored portion of the vein. Also 25-30 feet additional depth would be gained.

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It appears that the No. 3 tunnel will have to be thoroughly sampled before further underground development can be intelligently planned.

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LEVENS LEDGE (gold)

Riddle Area  
Douglas County

Refer Report by: E. A. Youngberg  
November 25, 1945

LOCATION:

The mine is located in the NE 1/4, Sec. 5, T. 31 S., R. 5. W. The mine is 3 1/2 miles southwest of Canyonville on the west slope of Tellurium Peak at an elevation of 1500 feet. The mine is about 3/4 mile south of the Canyonville Riddle road on Jordan Creek. The road from the Riddle road is graveled but steep;

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1069 State Office Building  
Portland 1, Oregon

LEVENS LEDGE PAGE 3

marked "confidential"

## ECONOMICS:

The No. 3 level exposes a persistent shoot of quartz for a distance of about 200 feet having a width of  $1\frac{1}{2}$  to 6 feet. This shoot coincides according to the old sketch map to the ore shoot mined above the No. 2 level. This quartz shoot is marked as ore on the sketch map. This area should be channeled sampled every 5 feet to determine if the quartz contains commercial gold values. This would require 40-50 samples. This shoot undoubtedly continues below No. 3 level as indicated by the three shafts. If possible these should be pumped out and sampled.

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STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
PROJECT SAMPLE RECORD

ADG-144 - NI  
145 - Au, Ag  
146 - Au, Ag  
147 - Au, Ag

SAMPLES SUBMITTED BY: Len Rupp ADDRESS: P.O. Box 417, Grants Pass, Ore. DATE: 8/1/69

Sample No.	Mine or Prospect	Type	District	S.	T.	R.	Assy For
ADG-144	Levens Ledge	Grab	Riddle	NE 5	31 S	5 W	NI
ADG-145	" "	3-foot chip	"	NE 5	31 S	5 W	Au, Ag
ADG-146	" "	15-foot chip	"	SE 32	30 S	5 W	Au, Ag
ADG-147	" "	3-foot chip	"	SE 32	30 S	5 W	Au, Ag

Descriptions:

- ADG-144 - Broken from loose chunk serpentinite on old road above Levens Ledge glory hole. Has minor sulfides (pyrrhotite) and iron staining on fractures.
- ADG-145 - Cut across serpentinite-greenstone contact on road cut above glory hole.
- ADG-146 - Cut across sheared iron-stained greenstone zone in road cut about 75 feet north of 16th corner (apparent trend - N. 25° E, dip 40° SE).
- ADG-147 - From sheared quartz veined graywacke or greenstone(?) near Dethan-greenstone contact 150 feet down mine road from sample DG-146.

Results

		GOLD Oz./ton	SILVER Oz./ton	NICKEL
P-33976	ADG-144	- -	- -	0.2 %
P-33977	ADG-145	NI1	NI1	- -
P-33978	ADG-146	NI1	NI1	- -
P-33979	ADG-147	NI1	NI1	- -

## RECORD IDENTIFICATION

RECORD NO..... M061221  
 RECORD TYPE..... X1M  
 COUNTRY/ORGANIZATION. USGS  
 MAP CODE NO. OF REC..

## REPORTER

NAME..... JOHNSON, MAUREEN G.  
 UPDATED..... 81 03  
 BY..... SMITH, ROSCOE M.  
           FERNs, MARK L. (BROOKS, HOWARD C.)  
           FERNs, MARK L. (BROOKS, HOWARD C.)

## NAME AND LOCATION

DEPOSIT NAME..... LEVAN'S LEDGE

MINING DISTRICT/AREA/SUBDIST. RIDDLE

COUNTRY CODE..... US

COUNTRY NAME: UNITED STATES

STATE CODE..... OR

STATE NAME: OREGON

COUNTY..... DOUGLAS

DRAINAGE AREA..... 17100302 PACIFIC NORTHWEST

PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION..... 01

QUAD SCALE  
1: 62500

QUAD NO OR NAME  
CANYONVILLE

LATITUDE  
42-54-38N

LONGITUDE  
123-18-43W

UTM NORTHING  
4750728.9

UTM EASTING  
474546.5

UTM ZONE NO  
+10

TWP..... 31S  
 RANGE..... 05W  
 SECTION.. 05  
 MERIDIAN. W.M.

ALTITUDE.. 1700

LOCATION COMMENTS: NE 1/4

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):

POTENTIAL.....  
OCCURRENCE..... CU AG

ORE MATERIALS (MINERALS, ROCKS, ETC.):

PYRITE, CHALCOPYRITE, GOLD

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV. 4  
PROPERTY IS INACTIVE

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

VOLCANOGENIC STRINGERS

FORM/SHAPE OF DEPOSIT: OVERLAPPING QUARTZ LENS

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL  
MAX WIDTH..... 8 FT  
STRIKE OF DREBODY.... N70-80E  
DIP OF DREBODY..... 60-70 SE

COMMENTS(DESCRIPTION OF DEPOSIT):

169 ACRES PATENTED GROUND

DESCRIPTION OF WORKINGS

UNDERGROUND

LENGTH OF WORKINGS..... 2400 FEET

COMMENTS(DESCRIP. OF WORKINGS):

SEVEN ADITS TOTAL 2400, STOPES

PRODUCTION

YES

SMALL PRODUCTION

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OVERBURD.) YES

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE SML		.025	TONS		
2 AU SML		.001	OZ	.04	OZ/T

CUMULATIVE PRODUCTION (ORE, COMMOD., CONC., OVERBURD.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
15 AU	EST	20,000	DOLLARS	EARLY DAYS	PROBABLY GOLD ONLY

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS.....	JUR
HOST ROCK TYPES.....	GREENSTONE
IGNEOUS ROCK TYPES.....	SERPENTINITE; DIORITE DIKES

LOCAL GEOLOGY

COMMENTS (GEOLOGY AND MINERALOGY):

MAY BE ON NORTHEAST EXTENSION OF THE SILVER PEAK MINERALIZED ZONE.

GENERAL REFERENCES

- 1) RAMP, L., 1972, GEOLOGY AND MINERAL RESOURCES OF DOUGLAS COUNTY, OREGON; ODGMI BULL. 80, P.
- 2) OREGON METAL MINES HANDBOOK, 1940, ODGMI BULL. 14-C, VOL. 1, P.106

DESCRIPTION OF PROPERTY.....

LOCAL GEOLOGY

COMMENTS (GEOLOGY AND MINERALOGY):

GENERAL REFERENCES

1) RAMP, L., 1972, GEOLOGY AND MINERAL RESOURCES OF DOUGLAS COUNTY, OREGON; ODGMI BULL. 80, P.

2) OREGON METAL MINES HANDBOOK, 1940, ODGMI BULL. 14-C, VOL. 1, P.106

Sledge.

Livers Gold Mine. in section  
several hundred ft of tunnel.

Reaves

P. L. Swartz Snow about  
921 N 10 St. mine.

Box 44 R O /  
Eng McCullah ←

100' vertical did not  
cross out to veins  
Contact serp & Gunstone.

drop down about 500' or  
and run a 1000 drift  
found contact (serp) but no  
ore. about 1900:  
best run \$900 in 3 days  
5 stamp mill. still on profit